EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		S114 and $3fix$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 12:19
		S114 and fix3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 12:19
		S114 fix3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 12:19
		((insert$3 or apend$3) same (remaind$3 or remnant) same predicate$1)) and quer$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:32
		S103 and "707".CLASS.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:30
		S103 and "707".CLASS.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:30
		S83 and ((uniform or regular or fix$3) with length	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:43
		(remnant or excess or remain$4)) and (match$3 with length with (quer$3 or predicate))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/12/19 12:38
S1	1	chen-shyh.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 11:44

EAST Search History

S2	11	chen-"shyh-kwei".in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 11:53
S3	2	S2 and "virtual construct interval"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 11:44
S4	0	S2 and "virtual construct interval$1"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 11:45
S5	3	S2 and "virtual construct interval"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 11:54
S6	41	wu-"kun-lung".in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 11:54
S7	3	S6 and "virtual construct interval"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 11:55
S8	2	mei-mark.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 11:55
S9	65	yu-philip-s.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 11:55
S10	1	S9 and "virtual construct interval"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 11:56
S11	0	virtual with contruct with interval$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 11:56

EAST Search History

S12	10	virtual with construct with interval$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 12:00
S13	3	S12 and quer$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 11:58
S14	0	("2005/0071321").URPN.	USPAT	OR	OFF	2006/03/20 11:58
S15	0	("2005/0071321").URPN.	USPAT	OR	OFF	2006/03/20 11:58
S16	0	("2005/0071322").URPN.	USPAT	OR	OFF	2006/03/20 11:58
S17	56	(predicate$1 with interval$1) and quer$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 12:01
S18	54	S17 not S12	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 12:01
S19	37	S18 and insert$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:11
S20	58	("5664172").URPN.	USPAT	OR	OFF	2006/03/20 12:10
S21	6	S20 and predicat$2	USPAT	OR	OFF	2006/03/20 12:10
S22	15	("5884304").URPN.	USPAT	OR	OFF	2006/03/20 12:18
S23	65	("5742806").URPN.	USPAT	OR	OFF	2006/03/20 14:03
S24	41	(fragmentation with (quer$3 or predicate$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:25
S25	1	("6681218").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 14:14
S26	0	("6681218").URPN.	USPAT	OR	OFF	2006/03/20 14:13

EAST Search History

S27	1	("5128860").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 14:15
S28	1	("5319777").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 14:16
S29	1	("5822749").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 14:17
S30	1	("5829004").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 14:19
S31	1	("5875445").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 14:19
S32	0	S24 and (insert$3 with (predicate$1 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:24
S33	1	S24 and (insert$3 same (predicate$1 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:25
S34	0	("2005/0222980").URPN.	USPAT	OR	OFF	2006/03/20 14:25
S35	526	((fragmentat$4 or decompos$8) with (quer$3 or predicate$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:42
S36	30	S35 and (insert$3 same predicat$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:26

EAST Search History

S37	2354	(segment$5 with (quer$3 or predicate$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:43
S38	1303	S37 and index$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:43
S39	690	S38 and interval$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:43
S40	603	S39 and length$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:44
S41	11	S40 and (insert$3 with predicate$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:50
S42	1	"20050071322"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 14:50
S43	1	S42 and (predicate with interval) and (virtual with construct with interval)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:02
S44	9	"predicate interval"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:08
S45	237	predicate$1 with interval$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:08
S46	60	S45 and (insert$3 same (predicate$1 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:09

EAST Search History

S47	52	S46 not S44	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:11
S48	1	S47 and (match$3 same (lenght$1 or size$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:10
S49	33	S47 and (lenght$1 or size$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:11
S50	153	(insert$3 with predicate$1) and quer$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:13
S51	114	S50 and index$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:14
S52	67	S51 and (lenght or size)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:27
S53	0	S51 and (match$3 near5 (lenght or size))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:28
S54	0	S51 and (match$3 near6 (lenght or size))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:28
S55	0	S50 and (match$3 near6 (lenght or size))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:28
S56	62	S50 and (match$3 and (lenght or size))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:28

EAST Search History

S57	62	S50 and match$3 and (lenght or size)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/20 15:29
S58	1	("6289334").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 17:20
S59	0	("insert$3withquerywith(segmentsorinterval$1orpredicate$1orfragment$1)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 17:21
S60	281	insert same quer$3 same (segment$1 or fragment$1 or predicat$2 or interval$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 17:27
S61	119	S60 and index$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 17:25
S62	6143	quer$3 and (insert$3 with (segment$1 or fragment$1 or predicat$2 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 17:42
S63	105	(quer$3 with insert$3 with (segment$1 or fragment$1 or predicat$2 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 17:32
S65	22	S62 and (index$3 with quer$3 with predicate$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/20 17:42
S66	1	("6289334").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 12:03
S67	1	S66 and (length or size)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:10

EAST Search History

S68	94	((length or size) same (predicate or quer$3) same insert$3 same (remnant or excess or remain$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:12
S69	0	((length or size) same (predicate or quer$3) same insert$3 same (remnant or excess or remain$4)) and 707/3.CLSS.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:12
S70	10	((length or size) same (predicate or quer$3) same insert$3 same (remnant or excess or remain$4)) and 707/3.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:43
S71	1	("6694306").URPN.	USPAT	OR	OFF	2006/03/21 12:30
S72	8	((length or size) same (predicate or quer$3) same insert$3 same (remnant or excess or remain$4)) and match$3 and 707/3.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:40
S73	2	S70 and (match$3 with (length or size))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:36
S74	3	((length or size) same (predicate or quer$3) same insert$3 same (remnant or excess or remain$4)) and (match$3 with length with (quer$3 or predicate))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:55
S75	1451	(remnant or excess or remain$4) and (match$3 with length with (quer$3 or predicate))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 12:55
S76	136	S75 and ((uniform or constant or fixed) with length)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:16
S77	105	(quer$3 with insert$3 with (segment$1 or fragment$5 or predicat$2 or interval$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 14:30
S78	0	("7010522").URPN.	USPAT	OR	OFF	2006/03/21 14:32

EAST Search History

S79	1205	((match$3 or compar$3) with (length or size) with (quer$3 or predicates)) and segment$1 and remain$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 14:39
S80	812	S79 and excess and (length or size)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 14:40
S81	812	S79 and excess and (length or size)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:40
S82	0	S81 and "same length query"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:41
S83	682	S81 and "same length"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:50
S84	463	S83 and (uniform or regular or fix$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:42
S85	18	S83 and ((uniform or regular or fix$3) with length)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:43
S86	655643	"6694306" B1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 14:51
S87	0	("6694306B1").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 14:51
S88	1	("6694306").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 14:51

EAST Search History

S89	1	("6289334").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 18:15
S90	0	S89 and (bitmap$1 same locat$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 15:32
S91	0	S89 and (bitmap$1 same id)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 15:32
S92	0	S89 and (bitmap$1 same index$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 15:33
S93	0	S89 and (bitmap$1 same vector$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 15:33
S94	0	S89 and bitmap$1 and vector$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 15:33
S95	1	S89 and bitmap$1 and locat$5	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 17:38
S96	1	("5664172").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 17:39
S97	0	("queryand(insert$3withpredicate$1)and(insert$3withremain$3)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 18:17
S98	0	("queryand(framentat$3orsegmentat$3)").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 18:19

EAST Search History

S99	460	quer$3 and (segmentat$3 or fragmentat$3) and predicate$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/21 18:20
S100	0	S99 and (insert$3 with "same" with (length or size))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:22
S101	111	S99 and (insert$3 with (length or size))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:28
S102	101	S101 and (excess or remanin$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:28
S103	96	S101 and (insert$3 same (excess or remain$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:30
S104	0	S103 and "707".CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:30
S105	2	S101 and (insert$3 with (excess or remain$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:30
S106	4	((insert$3 or apend$3) same (remaind$3 or remnant) same predicate$1) and quer$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:35
S107	162	index$3 with quer$3 with predicate$1	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:37
S108	138	S107 and (length or size)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:37

EAST Search History

S109	28	S108 and (excess or remaind$4 or remnant)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/21 18:38
S110	1	("20050071322").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/22 11:22
S111	141	"1" and (insert$3 with initial) and remnant	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 11:09
S112	1	S110 and (insert$3 with initial) and remnant	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 11:15
S113	1	("20050216503").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/22 11:15
S114	1	("7010522").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/22 12:19
S115	1	("6289334").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/22 12:37
S116	1	S114 and (different same (attribute or value))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 12:18
S117	0	S114 and sufix	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 12:18
S118	0	S114 and sufix$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/03/22 12:18

EAST Search History

S119	1	S114 and suffix$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/22 12:22
S120	1	(match$3 with begin$4 with attribute) and (different with end$3 with attribute)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/22 12:27
S121	0	S120 and quer$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/03/22 12:27
S122	1	("20050071322").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/07/26 09:40
S123	1	S122 and (pre$1defin$4 or descompos$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/26 10:42
S124	1	S122 and pattern	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/07/26 10:43
S125	1	("20050071322").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/12/19 12:38
S126	1	S125 and (virtual with construct with interval)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/12/19 12:39
S127	10	(US-20020069193-$ or US-20040073549-$).did. or (US-5664172-$ or US-6289334-$ or US-5884304-$ or US-6105019-$ or US-6766316-$ or US-6370524-$ or US-6711563-$ or US-7010522-$).did.	US-PGPUB; USPAT	OR	OFF	2006/12/19 12:45

EAST Search History

S128	1	S127 and (predicate with interval)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	AND	OFF	2006/12/19 12:46
S129	3	S127 and vector	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	AND	OFF	2006/12/19 12:46
S130	1	S127 and (bitmap with vector)	US-PGPUB; USPAT; USOCR; EPO; IBM_TDB	AND	ON	2006/12/19 12:47
S131	1	(US-6289334-$).did.	USPAT	OR	OFF	2006/12/19 12:51
S132	1	S131 and quer$3	USPAT	OR	OFF	2006/12/19 12:51
S133	1	S131 and range	USPAT	OR	ON	2006/12/19 12:52
S134	1	S131 and (range with value)	USPAT	OR	ON	2006/12/19 12:52
S135	1	(US-6289334-$).did.	USPAT	OR	OFF	2006/12/19 16:39
S136	1	S135 and range	USPAT	OR	OFF	2006/12/19 16:42
S137	1	S135 and (range with data with value)	USPAT	OR	ON	2006/12/19 16:40
S138	1	S135 and range	USPAT	OR	ON	2006/12/19 16:42
S139	1	S135 and ($quer$ with range)	USPAT	OR	ON	2006/12/19 17:19
S140	1	S135 and bit	USPAT	OR	ON	2006/12/19 17:19
S141	1	(US-6711563-$).did.	USPAT	OR	OFF	2006/12/19 17:22
S142	1	S141 and (quer$3 with bi$map)	USPAT	OR	ON	2006/12/19 17:22
S143	1	S141 and (bit and position)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/12/19 17:36

EAST Search History

S144	1	S141 and (bit and position)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/12/19 17:36
S145	1	(US-6289334-$).did.	USPAT	OR	OFF	2006/12/20 14:01
S146	1	S145 and overlap$	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2006/12/20 14:05
S147	1	(US-6289334-$).did.	USPAT	OR	OFF	2007/07/16 10:39
S148	1	S147 and range	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:22
S149	0	S147 and (correspond with range)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 10:40
S150	1	("20050071322").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2007/07/16 13:22
S151	1	S150 and (virtual with construct with interval)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2007/07/16 10:59
S152	1	S147 and interval	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:24
S153	15	virtual with construct with interval	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:27
S154	7324	(virtual with construct with interval) or vci	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:25

EAST Search History

S155	83	predicate with interval	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:30
S156	33	S155 and "707".CLAS.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:29
S157	28	S156 and range	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:29
S158	16	(predicate with interval) same range	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:30
S159	13	S158 and "707".CLAS.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:39
S160	3	S159 and (bit or bit$1map)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:31
S161	2923	(virtual with interval)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:40
S162	57	(virtual with interval) with ranges	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:45
S163	4	S162 and query	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:45
S164	12	("6105019").URPN.	USPAT	OR	OFF	2007/07/16 11:48
S165	8	S164 and interval	USPAT	OR	ON	2007/07/16 11:49

EAST Search History

S166	0	S164 and (interval with (bit or bit$1map))	USPAT	OR	ON	2007/07/16 11:49
S167	0	S164 and (interval same (bit or bit$1map))	USPAT	OR	ON	2007/07/16 11:49
S168	8	S164 and (interval same query)	USPAT	OR	ON	2007/07/16 11:50
S169	2	S168 and (interval same range)	USPAT	OR	ON	2007/07/16 11:52
S170	0	predicate with interval with (bit$1map or bit)	USPAT	OR	ON	2007/07/16 11:52
S171	1	predicate with interval with (bit$1map or bit)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:53
S172	31484	interval with (bit$1map or bit)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:53
S173	11	(US-20020069193-$ or US-20040073549-$).did. or (US-6105019-$ or US-5664172-$ or US-6289334-$ or US-6711563-$ or US-6370524-$ or US-6766316-$ or US-5884304-$ or US-7010522-$ or US-6439783-$).did.	US-PGPUB; USPAT	OR	OFF	2007/07/16 11:53
S174	1	S173 and (interval with (bit$1map or bit))	US-PGPUB; USPAT	OR	ON	2007/07/16 11:54
S175	1	S173 and (interval with (bit$1map or bit))	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:54
S176	5196	((insert$3 or put$4 or introduc$3 or plac$3 or set$3) with interval with (bit$1map or bit))	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:56
S177	5196	((insert$3 or put$4 or introduc$3 or plac$3 or set$3) with interval with (bit$1map or bit))	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:56
S178	42	((insert$3 or put$4 or introduc$3 or plac$3 or set$3) with interval with bit$1map)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 12:03

EAST Search History

S179	5	S178 and "707".CLAS.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 11:58
S180	1	S179 and query	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 12:04
S181	2	S178 and query	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 12:04
S182	1	(US-6439783-$).did.	USPAT	OR	OFF	2007/07/16 13:09
S183	1	(US-6105019-$).did.	USPAT	OR	OFF	2007/07/16 13:09
S184	2	S182 S183	US-PGPUB; USPAT	OR	OFF	2007/07/16 13:10
S185	1	S148 and interval	US-PGPUB; USPAT	OR	OFF	2007/07/16 13:10
S186	1	S148 and interval	US-PGPUB; USPAT	OR	ON	2007/07/16 13:10
S187	1	S148 and interval	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:11
S188	2	S184 and interval	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:33
S189	0	S184 and (interval with range with (bit$1map or bit))	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:13
S190	2	S184 and (interval with range)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:17

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S191	1	S184 and (predicate with interval)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:19
S192	2	S184 and bit	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:19
S193	1	S150 and (virtual with construct with interval)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2007/07/16 13:22
S194	1	S184 and interval and subinterval	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:34
S195	0	S184 and ((interval or subinterval) with bit)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:35
S196	0	S184 and ((interval or subinterval) same bit)	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:35
S197	2	S184 and (interval or subinterval) and bit	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:35
S198	1	S184 and (interval or subinterval) and bitmap	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2007/07/16 13:35

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1 DB-2 (databases): data streams: Interval query indexing for efficient stream processing

Kun-Lung Wu, Shyh-Kwei Chen, Philip S. Yu
November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**
Publisher: ACM Press

Full text available: pdf(263.69 KB) Additional Information: full citation, abstract, references, citings, index terms

A large number of continual range queries can be issued against a data stream. Usually, a main memory-based query index with a small storage cost and a fast search time is needed, especially if the stream is rapid. In this paper, we present a CEI-based query index that meets both criteria for efficient processing of continual interval queries in a streaming environment. This new query index is centered around a set of predefined virtual containment-encoded intervals, or CEIs. T ...

Keywords: continual queries, data streams, interval indexing, query indexing, query monitoring

2 Posters: Efficient structural joins with on-the-fly indexing

Kun-Lung Wu, Shyh-Kwei Chen, Philip S. Yu
May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web WWW '05**
Publisher: ACM Press

Full text available: pdf(65.04 KB) Additional Information: full citation, abstract, references, index terms

Previous work on structural joins mostly focuses on maintaining offline indexes on disks. Most of them also require the elements in both sets to be sorted. In this paper, we study an *on-the-fly*, in-memory indexing approach to structural joins. There is no need to sort the elements or maintain indexes on disks. We identify the similarity between the structural join problem and the stabbing query problem, and extend a main memory-based indexing technique for stabbing queries to structural j ...

Keywords: XML, containment queries, structural joins

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museum +art
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museum +"natural history" dinosaur -Chicago
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Relevance scale

1 A graphical interval logic for specifying concurrent systems

L. K. Dillon, G. Kutty, L. E. Moser, P. M. Melliar-Smith, Y. S. Ramakrishna
April 1994 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 3 Issue 2
Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article describes a graphical interval logic that is the foundation of a tool set supporting formal specification and verification of concurrent software systems. Experience has shown that most software engineers find standard temporal logics difficult to understand and use. The objective of this article is to enable software engineers to specify and reason about temporal properties of concurrent systems more easily by providing them with a logic that has an intuitive graphical represe ...

Keywords: automated proof-checking, concurrent systems, formal specifications, graphical interval logic, temporal logic, timing diagrams, visual languages

2 An interval logic for higher-level temporal reasoning

Richard L. Schwartz, P. M. Melliar-Smith, Friedrich H. Vogt
August 1983 **Proceedings of the second annual ACM symposium on Principles of distributed computing PODC '83**
Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

During the last several years, we have explored temporal logic as a framework for specifying and reasoning about concurrent programs, distributed systems, and communications protocols. Previous papers[Schwartz/Melliar-Smith81, 82, Vogt82a,b] report on our efforts using temporal reasoning primitives to express very high-level abstract requirements that a program or system is to satisfy. Based on our experiences with those primitives, we have developed an interval logic more suitable for expr ...

3 Real-time interval logic for reasoning about executions of real-time programs

R. Razouk, M. Gorlick
November 1989 **ACM SIGSOFT Software Engineering Notes , Proceedings of the ACM SIGSOFT '89 third symposium on Software testing, analysis, and**

verification TAV3, Volume 14 Issue 8
Publisher: ACM Press

Full text available: pdf(935.02 KB) Additional Information: full citation, abstract, references, citings, index terms

Research on the testing and debugging of distributed real-time programs now focuses on more formal approaches to specification and testing. Temporal logic is a natural candidate for this since it can specify properties of event and state sequences. However, the absence of any concept of real-time limits the application of temporal logic to non real-time behavior. This paper presents an extension of the interval logic of Schwartz et al. [SMSVP83], by increasing the expressive power of the lo ...

4 Graphical specifications for concurrent software systems

L. K. Dillon, G. Kutty, L. E. Moser, P. M. Melliar-Smith, Y. S. Ramakrishna
June 1992 **Proceedings of the 14th international conference on Software engineering ICSE '92**
Publisher: ACM Press
Full text available: pdf(884.66 KB) Additional Information: full citation, references, citings, index terms

5 Temporal logics for real-time system specification

P. Bellini, R. Mattolini, P. Nesi
March 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 1
Publisher: ACM Press

Full text available: pdf(233.27 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The specification of reactive and real-time systems must be supported by formal, mathematically-founded methods in order to be satisfactory and reliable. Temporal logics have been used to this end for several years. Temporal logics allow the specification of system behavior in terms of logical formulas, including temporal constraints, events, and the relationships between the two. In the last ten years, temporal logics have reached a high degree of expressiveness. Most of the temporal logi ...

Keywords: logic specification languages, metric of time, modal logic, reactive systems, real-time, specification model, temporal constraints, temporal logics, temporal relationships

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